Mcclellan, Barbara A (DFW)

From: Willapa Bay (DFW)

Sent: Thursday, August 19, 2021 4:39 PM

Subject: 2021 Willapa Bay In-Season Update through August 15 - management week 32 and 33

Attachments: 2021 WB Marine Area Recreational Data & Catch Estimate Summary Draft weeks

32-33.pdf; Naselle Hatchery Adult CHK Summary 08.19.2021.pdf; 2021 WB Hatchery

Chinook Eggtake 08.19.2021.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Hi Everyone,

We wanted to first address an issue regarding these weekly update emails with our entire distribution list.

From this point forward, replies to the Willapa Bay mailer will only be sent to staff. We want to remind everyone that this distribution list is intended to be a pathway to disseminate information to those who have signed up to hear updates from Region 6 staff, and not a place to air your personal opinions. Folks who abuse the Willapa Bay mailer in the future will be removed from the list without warning.

This week's email will provide you an in-season update on the Willapa Bay marine area 2.1 recreational fishery from August 1-15, 2021 (management weeks 32 and 33), information on hatchery Chinook broodstock at our Willapa Bay facilities, and spawning ground surveys to-date.

Recreational Marine Fishery

Starting August 1, the Willapa Bay program now monitors the recreational marine fishery in Tokeland and South Bend two days per strata (strata 1: Monday – Thursday, strata 2: Friday – Sunday). We are now conducting a boat survey to evaluate the proportion of effort that exits the fishery at sampled (Tokeland and South Bend) vs. non-sampled locations. We use this information to expand our actual sampled data collected dockside to the rest of the recreational fishery to account for any boats that may have left the fishery from other locations. We are also test fishing to collect unmarked Chinook genetics since those fish are illegal to retain as of August 1. This test fishing represents the same time, area, and fishing methods of the recreational salmon fishery in Willapa Bay.

Since our last update, there has been a significant increase in effort and catch of hatchery Chinook salmon especially this past weekend with the highest effort on Saturday, August 14, 2021. The increase in effort resulted in more hatchery Chinook salmon being caught but only a few hatchery coho retained. Our dockside staff reported our highest number of landed fish in a single day on Saturday, August 14, doubling the previous day. There were several good tides over the weekend, which may have contributed to more fish biting. The weather was also a bit cooler than previous weeks,

which may have helped to cool the overall water temperature. (See attachment: 2021 WB Marine Area Recreational Data & Catch Estimate Summary Draft weeks 32-33.pdf)

For this week, we have seen afternoon high tides (after 12 p.m.) with a larger tidal exchange (minus low tides to a 6-8-foot-high tide). This tide series will continue this way through the Saturday, August 28, when we will transition to morning high tides that will be more favorable. The weather will also remain cooler than the past several weeks.

Hatchery Chinook Rack Returns

Naselle Hatchery:

To-date, 51 adult and 2 jack Chinook salmon have volunteered into the attraction channel and recruited into the hatchery. Of these 51 Chinook salmon, three were unmarked males and hatchery staff have passed them upstream above the weir. Currently, there have been no Chinook salmon mortalities reported in the Naselle Hatchery. These data will be updated in the next weekly in-season email. (See attachment: Naselle Hatchery Adult CHK Summary 08.19.2021.pdf and 2021 WB Hatchery Chinook Eggtake 08.19.2021.pdf)

Nemah and Forks Creek hatcheries:

To-date, no Chinook have recruited into the hatchery.

Spawning Ground Surveys

Staff started weekly stream surveys August 2nd below the weir in Nemah and Naselle rivers. We have observed almost 200 Chinook staging in the Naselle River, however, we have not observed any spawning or found any redds. Staff have observed very few Chinook in the Nemah River staging below the weir. Staff will begin to survey the Lower South Fork Willapa River this week. Traditionally, Chinook begin spawning in Willapa Bay rivers in the middle of September.

As mentioned above, if you have any comments or questions specific to the information provided in these emails, please submit your comments to <u>WillapaBay@dfw.wa.gov</u>.

Additionally, if you know of anyone who might be interested in receiving these in-season update emails or any other information we send out regarding Willapa Bay fisheries, please forward this email and have them reply to WillapaBay@dfw.wa.gov stating they would like to be added to our email distribution list.

Thank you and Fish On! ><(((°> Barbara McClellan Willapa Bay Fisheries Management WDFW Region 6 Montesano

Online reference links you may be interested in:

Willapa Bay Marine Area 2.1 Recreational Creel

Monitoring: https://wdfw.wa.gov/fishing/reports/creel/willapa-bay

Willapa Bay and Grays Harbor (non-treaty) Commercial Salmon Fisheries (regulations and landed catch): https://wdfw.wa.gov/fishing/commercial/gillnet#information

In-season Estimates of Effort and Salmon Catch

updated

8/21/2021

2021 Willapa Bay Marine Area Recreational Mark Selective Chinook and Coho Fishery

All data is preliminary and subject to change

Marked = Adipose fin clipped

Unmarked = Adipose fin not clipped

							Catch	Estimates		
Month	Week	Dates	Dogulation	Estin	mated	Retained	Chinook	Retained 0 Unmarked 0 0 0 0 0 0 0 0 0 0 0 0 0	Coho	
MOUTH	vveek	Dates	Regulation	Boats	Anglers	Unmarked	Marked	Unmarked	Marked	
June	25	Jun 19 & 20	No Coho	8	26	0	0	0	0	
(Ocean Area 2	26	June 21 - 27	retention	9	22	0	0	0	1	
rules)	27	June 28 - Jul 4	allowed	13	32	0	0	0	0	
And the second	28	July 5 - 11	A STAR S	26	55	0	0	0	0	
July	29	July 12 - 18	No wild Coho retention	26	63	0	2	0	3	
(Ocean Area 2 rules)	30	July 19 - 25	allowed	61	135	9	8	0	0	
rules)	31	July 26 - Aug 1	unovida	20	44	0	3	0	4	
-	To	otal to Date		163	377	9	13	0	8	

Estimated Willapa origin Chinook Impacts									
Unmarked	Marked								
0	0								
0	0								
0	0								
0	0								
0	1								
3	3								
0	1								
3	4								

For June and July, dockside sampling was conducted only at the Tokeland boat launch and marina

					7			Estima	ated Catch			Est	imated Enco	Estimated Catch			
								Retain	ed Chinook			R	eleased Chi	nook	F	Retained Co	ho
221.12	Mark	Dates	Dogulation	Estir	Estimated		Marked	Marked WB	Unmarked	UM CPUE	UM WB origin	Unmarked	UM CPUE	UM WB origin	Marked	Marked	Unmarked
Month	Week	Dates	Regulation	Boats	Anglers	Marked	CPUE	origin impacts	Uninarked	OW CFUE	impacts	Encounters	OW CPUE	impacts	Markeu	CPUE	Offinalked
	31	8/1/2021 only	No wild coho or wild Chinook retention allowed	57	129	17	0.128	10	0	0.000	0	8	0.064	1	0	0.000	0
	32	Aug 2 - 8		301	633	59	0.094	37	0	0.000	0	20	0.032	2	6	0.009	0
August	33	Aug 9 - 15		371	794	86	0.108	53	0	0.000	0	27	0.034	2	0	0.000	0
	34	Aug 16 - 22															
	35	Aug 23 - 29													1		
	36	Aug 30 - Sept 5															
	37	Sept 6 - 12															
September	38	Sept 13 - 19															
	39	Sept 20 - 26															
	40	Sept 27 - 30															
	Т	otal to Date		729	1,557	162		100	0		0	55		5	6		0

For Aug and Sept., dockside sampling was conducted at Tokeland and South Bend

These data represent the estimated expanded values (not raw data). No jacks included in estimates.

Strata 1 - Mon - Thurs

Strata 2 - Fri - Sun

CPUE = Catch per unit effort

Effort = An individual angler trip

2021 Willapa Bay Origin PreSeason Recreational Data

Preliminary/Draft

Updated

8/21/2021

		Willapa Bay N	latural-Or	igin Fall Chinoo	k		Willapa Bay Hatchery-Origin Fall Chinook						
		Harvest Rate	Preseason Prediction		In-seaso	n Estimate		Preseaso	on Prediction	In-season Estimate			
Mgmt Wk	Date	Proportions NOR Cumula	Cumulative Total	WB Origin	Cumulative Total	Proportions	HOR	Cumulative Total	WB Origin	Cumulative Total			
25	6/19 - 6/20	0.0338	0	0	0	0	0.0048	0	0	0	0		
26	6/21 - 6/27	0.0338	0	0	0	0	0.0048	0	0	0	0		
27	6/28 -7/4	0.0338	3	3	0	0	0.0048	4	4	0	0		
28	7/5 - 7/11	0.0204	2	4	0	0	0.0072	6	10	0	0		
29	7/12 - 7/18	0.0970	7	11	0	0	0.0089	8	18	1	1		
30	7/19 - 7/25	0.0532	4	15	3	3	0.0312	27	44	3	3		
31	7/26 - 8/1	0.1146	8	24	1	4	0.0278	24	68	11	14		
32	8/2 - 8/8	0.0807	6	30	2	5	0.1114	95	163	37	51		
33	8/9 - 8/15	0.0853	6	36	2	8	0.1449	124	287	53	104		
34	8/16 -8/22	0.1363	10	46		8	0.2190	187	474		104		
35	8/23 - 8/29	0.1552	11	57		8	0.2398	205	678		104		
36	8/30 - 9/5	0.0755	6	63		8	0.1169	100	778		104		
37	9/6 - 9/12	0.0791	6	69		8	0.0634	54	832		104		
38	9/13 - 9/19	0.0178	1	70		8	0.0211	18	850		104		
39	9/20 - 9/26	0.0384	3	73		8	0.0013	1	851		104		
40	9/27 - 9/30	0.0128	1	74		8	0.0010	1	852		104		
			74		8	0.103		853		104	0.122		

Naselle Hatchery Chinook Rack Returns Preliminary/DRAFT * 8/19/2021

Year			20	18					20	19				2020						2021*				
Origin	Ha	atchery			Natural		Ha	atchery			Natural		Ha	atchery			Natural		Hatchery				Natural	
Stat Week	Weekly Total	Cumulative	% Run Timing																					
31	1	1	0%		-	-	1	1	0%	1	1	1%	-			-				0			0	1
32	5	6	0%	-	-	-	9	10	0%	0	1	1%	-			-	-		1	1		0	0	
33	11	17	1%	2	2	0%	23	33	1%	3	4	2%	17	17	0%	0	0	0%	28	29	0%	3	3	0%
34	12	29	1%	3	5	1%	48	81	3%	5	9	5%	59	76	1%	3	3	0%	19	48	1%	0	3	0%
35	44	73	2%	7	12	2%	145	226	9%	7	16	8%	52	128	2%	6	9	1%			0%			0%
36	16	89	3%	5	17	3%	347	573	23%	24	40	20%	107	235	4%	5	14	2%			0%			0%
37	784	873	30%	87	104	21%	373	946	38%	9	49	25%	649	884	13%	34	48	7%			0%			0%
38	128	1,001	34%	7	111	23%	150	1,096	44%	0	49	25%	372	1256	19%	3	51	8%			0%			0%
39	123	1,124	38%	15	126	26%	86	1,182	47%	12	61	31%	1,600	2856	43%	6	57	9%			0%			0%
40	196	1,320	45%	65	191	39%	32	1,214	49%	11	72	37%	892	3748	56%	6	63	10%			0%			0%
41	560	1,880	64%	114	305	62%	521	1,735	69%	41	113	58%	874	4622	69%	178	241	37%			0%			0%
42	654	2,534	87%	85	390	80%	406	2,141	86%	17	130	66%	1122	5744	86%	228	469	72%			0%			0%
43	219	2,753	94%	36	426	87%	315	2,456	98%	59	189	96%	407	6151	92%	118	587	91%			0%			0%
44	166	2,919	100%	58	484	99%	26	2,482	99%	5	194	99%	492	6643	99%	59	646	100%			0%			0%
45	7	2,926	100%	5	489	100%	15	2,497	100%	1	195	99%	26	6669	100%	1	647	100%			0%			0%
46	0	2,926	100%	0	489		1	2,498	100%	0	195	99%	10	6679	100%	0	647	100%			0%			0%
47	0	2,926	100%	0	489		0	2,498	100%	1	196	100%	1	6680	100%	0	647				0%			
48	0	2,926	100%	0	489		0	2,498	100%	0	196		0	6680		0	647							
49	0	2,926	100%	0	489		2	2,500	100%	0	196		0	6680		0	647							
50	0	2,926	100%	0	489		0			0	196		0	6680		0	647							
51	1	2,927	100%	0	489		0			0	196		0	6680		0	647							
Total	2,927			489			2,500			196			6,680			647			48			3		

2021 Willapa Bay CHINOOK Broodsto	ck	Summary
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FishBooks

Program Release

400,000

updated 8/19/2021

needed

440,000

mortality

40,000

eggs/female

3,000

Needed

147

preliminary/draft

Naselle Hatchery	as of 08/19/2021						# Adults On-hand at the		Mortalities (prior to spawning)			
Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawned to-date	# Females still needed	facility (males & females combined)	# Eggs on Hand	Females	Males	Jacks	
5,000,000	500,000	5,500,000	3,000	1,833	0	1,833	48	0	0	0	0	
Nemah Hatchery	as of 08/19/2021						# Adults On-hand at the		Mortalitie	es (prior to s	pawning)	
Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawned to-date	# Females still needed	facility (males & females combined)	# Eggs on Hand	Females	Males	Jacks	
3,300,000	330,000	3,630,000	3,000	1,210	0	0	0	0	0	0	0	
Forks Creek Hatchery	as of 08/19/2021						# Adults On-hand at the		Mortalitie	es (prior to s	pawning)	
	10% add'l for	Total eggs	Fecundity	# of Females	# Females Spawned	# Females still	facility (males & females	# Eggs on	Females	Males	Jacks	

to-date

0

needed

147

combined)

0

Females

0

Hand

0

Males

0

Jacks

0